

Table A-11. Company and other non-Federal funds for industrial R&D performance outside of the U.S. and number of companies with subsidiaries that performed industrial R&D both within and outside of the U.S., by industry and size of company: 1999-2001

Page 1 of 3

Page 1 of 1

Industry and size of company	NAICS codes	1999 <sup>1</sup>		2000		2001	
			Amount		Amount		Amount
		Number of companies	[In millions of dollars]	Number of companies	[In millions of dollars]	Number of companies	[In millions of dollars]
Distribution by industry:							
All industries	21-23, 31-33, 42, 44-81	1,261	16,765	1,718	17,463	2,407	17,869
Manufacturing	31-33	747	12,354	572	12,252	593	10,998
Food	311	9	87	16	95 (S)	21	210
Beverage and tobacco products	312	1	(D)	1	(D)	0	0
Textiles, apparel, and leather	313-16	7	(D)	15	(D)	8	26
Wood products	321	1	(D)	0	0	2	(D)
Paper, printing and support activities	322, 323	11	(D)	9	(D)	8	(D)
Petroleum and coal products	324	3	(D)	3	9	2	(D)
Chemicals	325	105	3,243	94	3,578	60	2,328
Basic chemicals	3251	15	(D)	40	256	15	152
Resin, synthetic rubber, fibers, and filament	3252	7	(D)	4	(D)	6	(D)
Pharmaceuticals and medicines	3254	64	2,832	20	3,030	19	1,720
Other chemicals	325 minus (3251-52, 3254)	18	95	30	(D)	20	(D)
Plastics and rubber products	326	42	172	23	168	37	181
Nonmetallic mineral products	327	5	40	14	40	8	15
Primary metals	331	5	7	3	(D)	15	12
Fabricated metal products	332	42	75	32	65	20	61
Machinery	333	70	707	86	736	66	527
Computer and electronic products	334	177	1,902	178	1,705	219	2,562
Computers and peripheral equipment	3341	12	289	25	(D)	16	478 (S)
Communications equipment	3342	22	(D)	33	377	55	633
Semiconductor and other electronic components	3344	98	302	34	327	86	852
Navigational, measuring, electromedical, and control instruments	3345	42	1,112	85	679	59	586
Other computer and electronic products	334 minus (3341-42, 3344-45)	2	(D)	1	(D)	3	12
Electrical equipment, appliances, and components	335	33	433	20	455	23	418 (S)
Transportation equipment	336	90	3,933	27	3,640	22	2,832
Motor vehicles, trailers, and parts	3361-63	64	(D)	21	(D)	15	(D)
Aerospace products and parts	3364	6	(D)	3	(D)	4	138
Other transportation equipment	336 minus (3361-64)	20	17	3	(D)	3	(D)
Furniture and related products	337	2	(D)	5	(D)	1	(D)
Miscellaneous manufacturing	339	47	963	47	942	83	1,226
Medical equipment and supplies	3391	38	(D)	26	(D)	67	1,150
Other miscellaneous manufacturing	339 minus (3391)	8	(D)	21	(D)	16	76
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--	--	--	--

See explanatory information and SOURCE at end of table.

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Page 2 of 3

Industry and size of company	NAICS codes	1999 <sup>1</sup>		2000		2001	
		Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]
Distribution by industry:							
Nonmanufacturing	21-23, 42, 44-81	513	4,411	1,146	5,211	1,814	6,871
Mining, extraction, and support activities	21	52	48	6	43	7	37
Utilities	22	0	0	0	0	0	0
Construction	23	1	(D)	1	(D)	2	(D)
Trade	42, 44, 45	93	2,356	345	2,244	447	4,192
Transportation and warehousing	48, 49	0	0	0	0	0	0
Information	51	108	1,379	135	1,564	345	1,672
Publishing	511	101	637	118	940	336	983
Newspaper, periodical, book, and database	5111	0	0	2	(D)	5	8
Software	5112	101	637	116	(D)	331	975
Broadcasting and telecommunications	513	1	(D)	1	(D)	1	(D)
Radio and television broadcasting	5131	0	0	0	0	0	0
Telecommunications	5133	1	(D)	1	(D)	1	(D)
Other broadcasting and telecommunications	513 minus (5131, 5133)	0	0	0	0	0	0
Other information	51 minus (511, 513)	6	(D)	16	(D)	8	(D)
Finance, insurance, and real estate	52, 53	3	(D)	4	(D)	6	24
Professional, scientific, and technical services	54	196	523	236	904	943	881
Architectural, engineering, and related services	5413	47	(D)	54	371	193	78
Computer systems design and related services	5415	67	146	101	(D)	149	302
Scientific R&D services	5417	81	287	80	292	592	488
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	1	(D)	1	(D)	9	12
Management of companies and enterprises	55	2	18	5	(D)	2	(D)
Health care services	621-23	2	(D)	1	(D)	2	(D)
Other nonmanufacturing	56, 61, 624, 71, 72, 81	55	14	7	75 (S)	60	43

See explanatory information and SOURCE at end of table.

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Industry and size of company		1999 <sup>1</sup>		2000		2001	
		Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]
Distribution by size of company: [Number of employees]							
Total		1,261	16,765	1,718	17,463	2,407	17,869
5 to 24		46	1	484	352	1,050	96
25 to 49		51	14	86	37	269	21
50 to 99		231	117	188	455	301	228
100 to 249		264	140	246	421	149	223
250 to 499		144	243	132	162	93	207
500 to 999		156	860	188	532	134	647
1,000 to 4,999		204	2,099	228	2,238	251	2,104
5,000 to 9,999		81	1,188	74	1,352	74	2,073
10,000 to 24,999		48	2,965	49	3,626	44	3,329
25,000 or more		35	9,138	42	8,288	43	8,940

<sup>1</sup> Some statistics for 1999 have been revised since originally published.

KEY: (D) = Data have been withheld to avoid disclosing operations of individual companies.  
(S) = Indicates imputation of more than 50 percent.  
(-) = Indicates data not collected.

NOTES: The R&D in this table is the industrial R&D performed outside the 50 U.S. states and D.C. by a company's foreign subsidiaries or other foreign organizations funded from all sources except the Federal Government. The funds predominantly are the company's own, but also include funds from outside organizations such as other companies, research institutions, universities and colleges, nonprofit organizations, and State governments. Excluded from this table is company-funded R&D performed within the 50 U.S. states and D.C. (e.g., R&D performed on U.S. soil by foreign subsidiaries or other foreign organizations).

For 1999, 2000, and 2001, the frame from which the statistical samples were selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, in prior reports detailed industry statistics were published only from the large company partition; detailed industry statistics from the small company partition were not. Statistics from the small company partition were included in the manufacturing, nonmanufacturing, and all industries totals, but were aggregated into "small manufacturing" and "small nonmanufacturing" classifications instead of being included in their respective industry classifications. For this report, this practice was evaluated and discontinued because it was determined that the data for small companies are more useful if they are included in their respective industries even given the sampling concerns described above. Consequently, the "small manufacturing" and "small nonmanufacturing" stublines are no longer present. For 1999 and 2000, statistics previously published for the firms in the small company classifications are not shown separately in this table, but are included in the manufacturing, nonmanufacturing, and all industries totals. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at <http://www.nsf.gov/sbe/srs/sird/start.htm>.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2001